



Amazon Sidewalk in 2026

Platform Evolution, New Use Cases, and
What Comes Next

Wednesday, April 22, 2026



AMAZON
SIDEWALK

The Leader in IoT Wireless Connectivity



100%
IoT Focused

amazon sidewalk

Bluetooth

matter

Multiprotocol

Proprietary

THREAD

WiFi

WiSUN

zigbee

ZWAVE

**Breadth and
Depth of
Wireless IoT
Protocols**



#1
Share in Mesh



1st
To Market with Multiprotocol,
BLE Mesh, BLE 5.1



Innovation
Performance, Power,
CoEx, Modules,
SecureVault™

ember

ENERGY
micro

bluegiga

telegesis

Micrium

ZENTRI

ZWAVE

**REDPINE
SIGNALS**

2012

Software
ZigBee SoC

2013

Low-power 32-bit
MCUs

2015

BT Smart
Modules

2015

ZigBee/Thread
Modules

2016

Software
RTOS

2017

Cloud
Connected Wi-Fi

2018

Smart Home
Protocol

2020

Ultra Low
Power Wi-Fi

Amazon Sidewalk Commitment Shown At CES 2026

CES ANNOUNCEMENTS

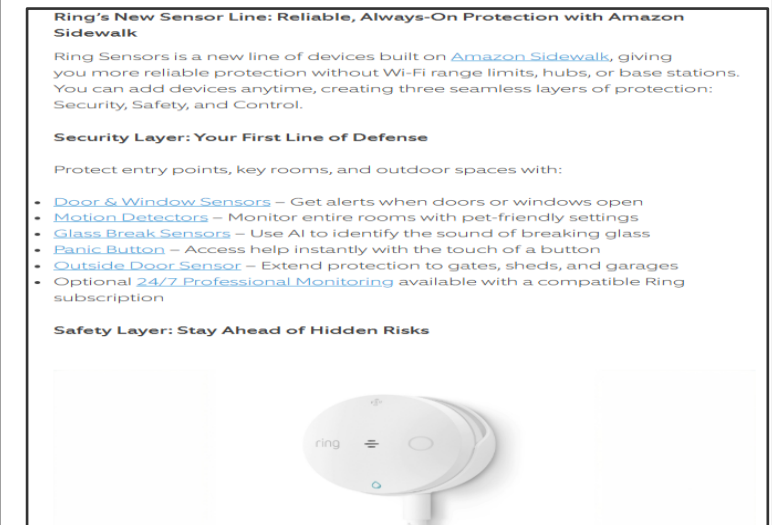
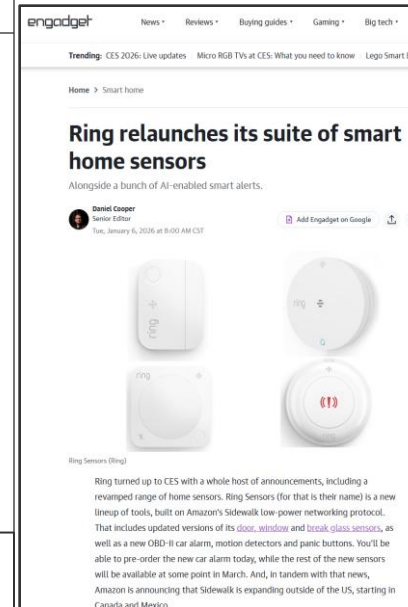
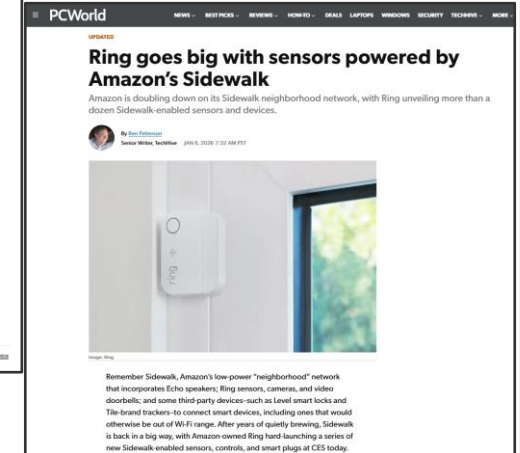
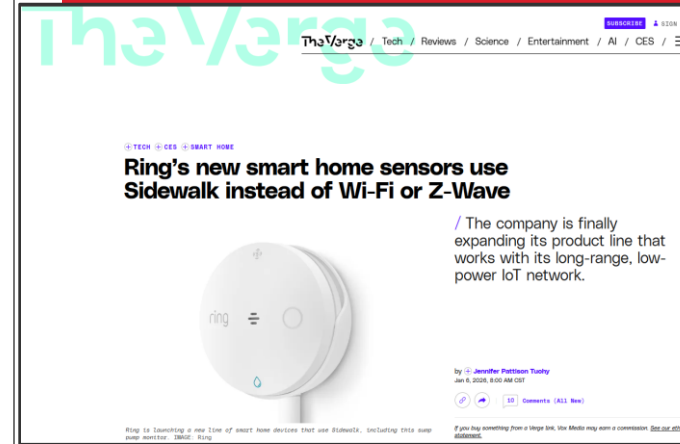
- Amazon has fully committed to Sidewalk like never before, announcing 15 new first-party (1P) Amazon branded devices at CES 2026 with 15+ more planned later in 2026
 - Products included multiple sensors/monitors, as well as car telematics product (3P)
- Market expansion- Sidewalk expanding to Mexico/Canada by mid-26 and EU by end of 26
- Location services now available- locate devices utilizing BLE connection to the Amazon bridge

SIDEWALK VALUE PROPOSITION

- Free to connect to the cloud (replace cellular, lora, etc)
- No end customer commissioning required to connect device
- Extract data from all field devices even if end customers don't connect the device on their own (this is key)
- No proprietary hub required from device manufacturer- end devices can run on existing Ring/Echo devices
- Any BLE/FSK devices can now seamlessly be connected to the cloud at no connection cost
- Silabs Sidewalk SDK is mature, best in class

“Sidewalk lets devices connect to the cloud automatically using existing Amazon infrastructure — no hub, no customer setup, and no recurring connectivity fees. Even if the end user never installs your app, you still get device data.”

EXTENSIVE SIDEWALK PRESS AT CES



What is Amazon Sidewalk?

amazon sidewalk

A unique secure network designed to

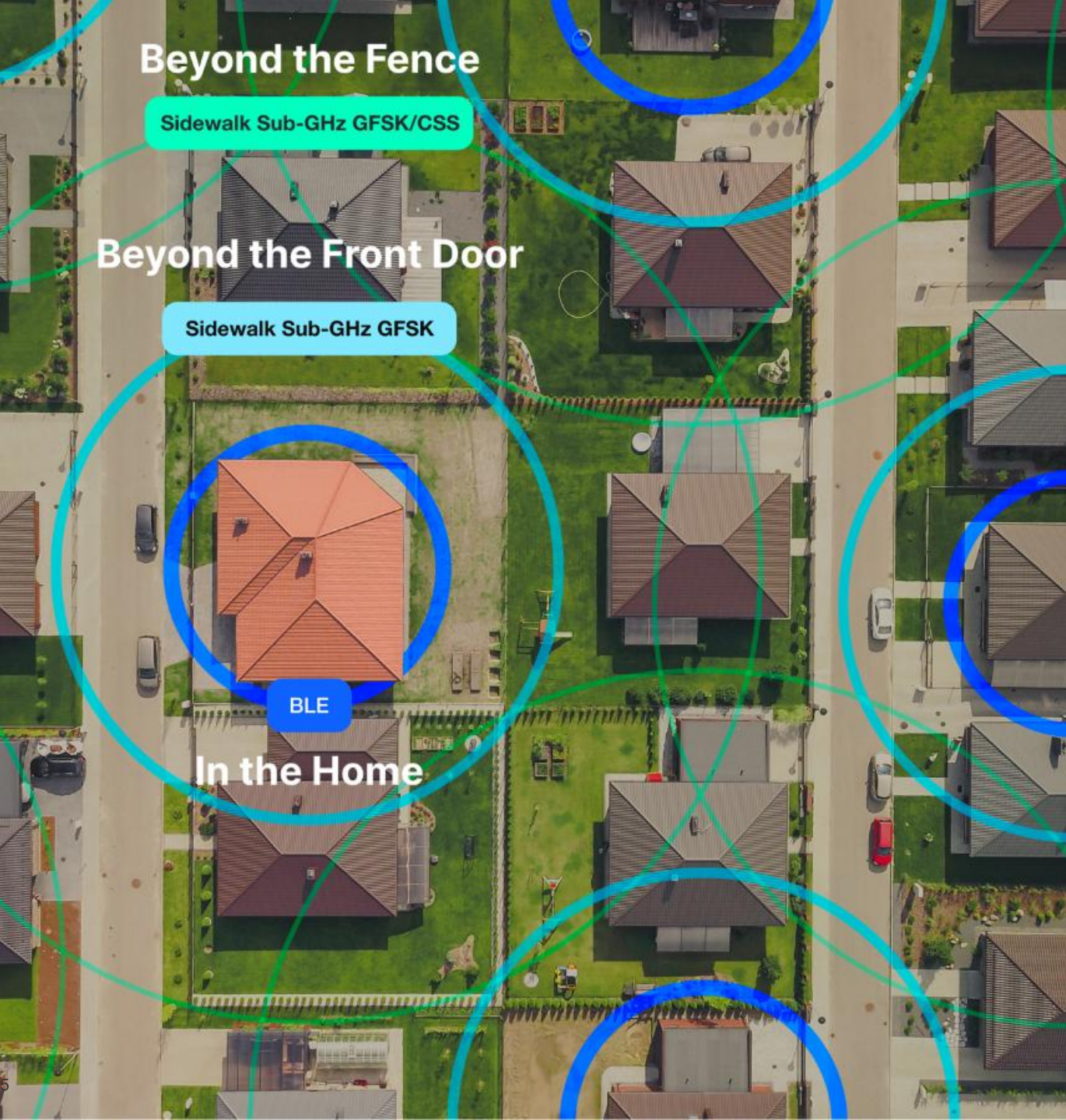
- Make devices work better beyond the front door
- Simplify device setup
- Keep devices up-to-date even if they are outside the range of home Wi-Fi

Operated by Amazon at no charge to end-customers

Amazon Sidewalk consists of:

- Protocol stack
- Application layer
- Standard physical layer (BLE, FSK, CSS)

Available US (Now), Canada & Mexico (Q1 2026), EU (Q4 2026)



Beyond the Fence

Sidewalk Sub-GHz GFSK/CSS

Beyond the Front Door

Sidewalk Sub-GHz GFSK

BLE

In the Home

Amazon Sidewalk Enables a Distributed Network Beyond the Front Door

Amazon Sidewalk is a new ecosystem for creating shared wireless networks connecting IoT devices at homes, and beyond the front door, across the entire neighborhood, and even the city.

Silicon Labs can accelerate the development of Amazon Sidewalk devices by making it possible for manufacturers to focus more of their resources on innovation and less on testing and integration. We have in-depth expertise in the underlying wireless protocols utilized by Amazon Sidewalk including Bluetooth and sub-GHz protocols.



Amazon Sidewalk Delivers Significant Value

Range extension

Frustration free setup / automatic connection

Remove need for proprietary gateway

Reliable connectivity where otherwise isn't present today

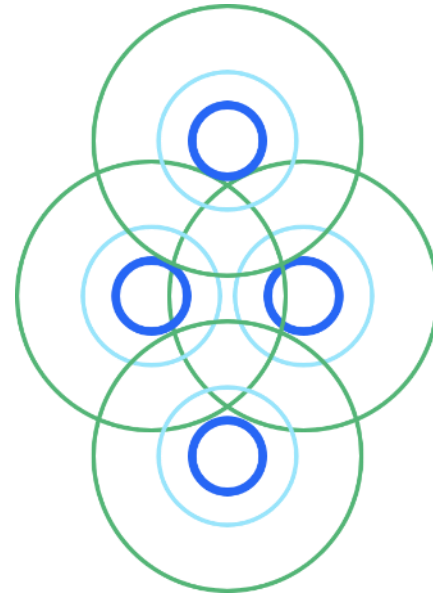
Free alternative to transport data to the cloud

Transcend home ownership while device remains connected

Unique Opportunity - Build the Device, Not the Network



Focus on building the end device



amazon.com[®]



Connect IoT Devices to an existing large network eliminating the need for a traditional gateway

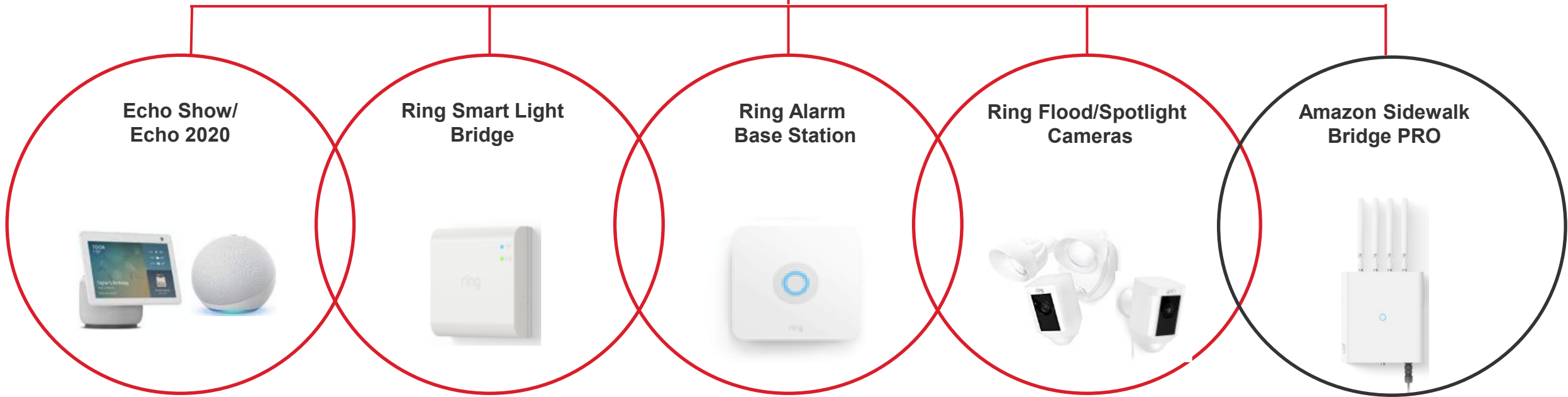
Access the data in the cloud and leverage Amazon sales channel

Products Enabling the Amazon Sidewalk Infrastructure



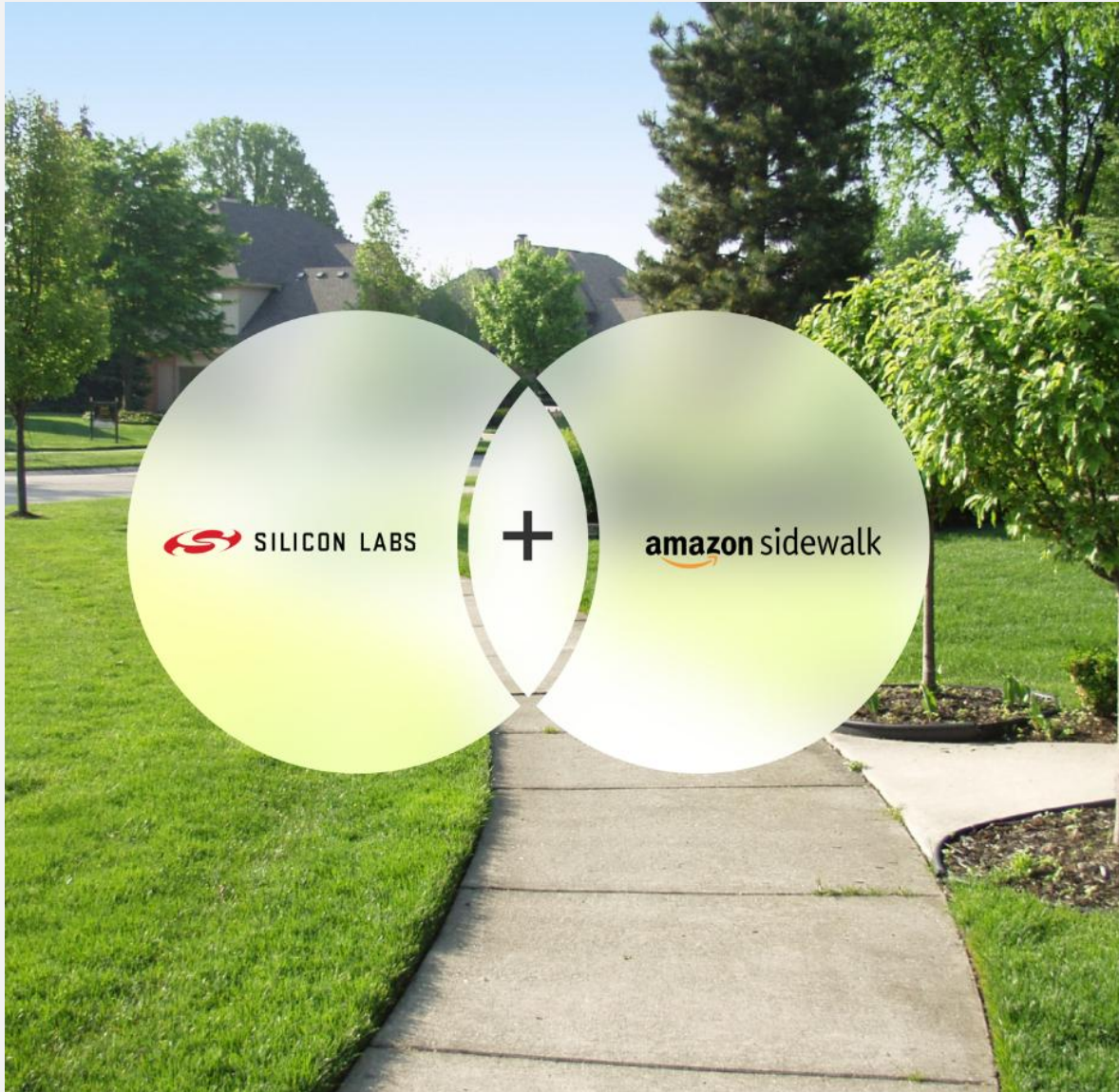
Leverage Amazon infrastructure

- AWS
- Seamless setup
- Amazon.com



Only Amazon products can be used for hubs, third party hubs will be allowed later.

Silicon Labs and Amazon Sidewalk



Silicon Labs is a Leader in Intelligent Wireless Connectivity Solutions for IoT

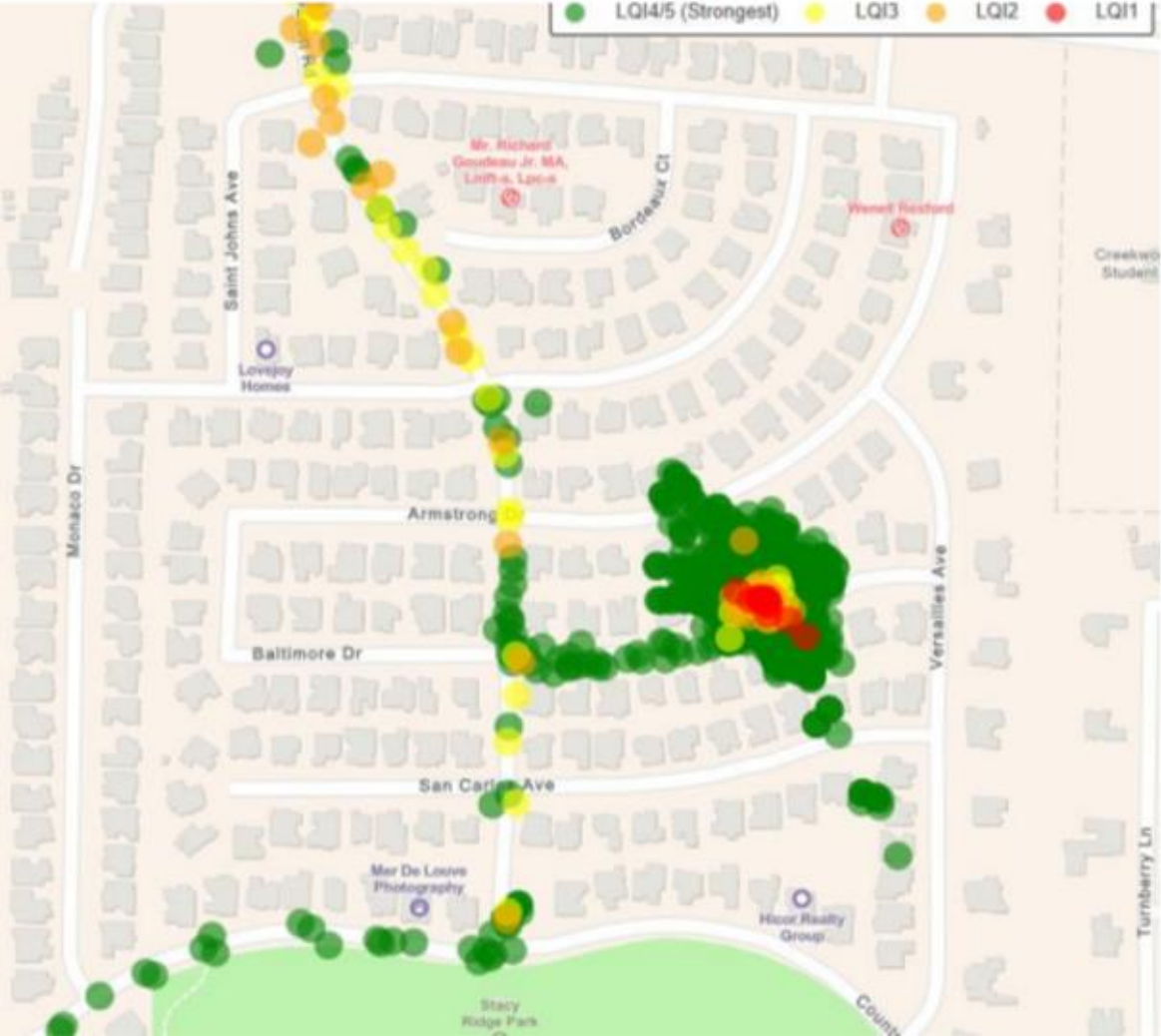
- Highest level security through Secure Vault™
- Holds a market leading position through its Bluetooth LE, Sub-GHz and multi-protocol solutions
- Proven experience driving complex IoT solutions from concept to product launch

Silicon Labs is a Lead Scaling Partner for Amazon Sidewalk

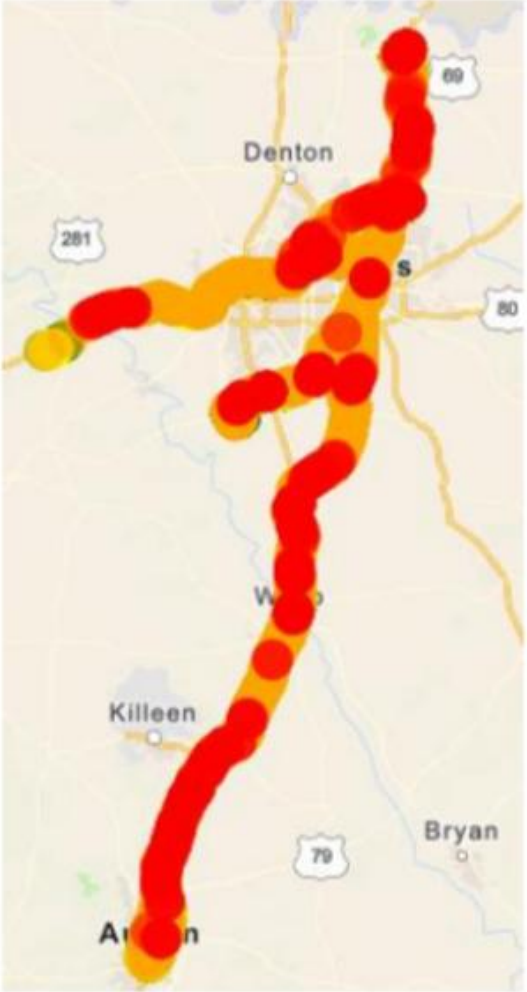
- Works with leading device makers
- Makes it easy to build a device for Amazon Sidewalk through fully integrated tools and services
- Drives the full developer journey from concept to launch
- Continuously innovates with Amazon for long term success via HW and SW roadmaps

Amazon Sidewalk Location Service Testing

Neighborhood test kit map



Dallas to Austin test kit map



Amazon Sidewalk Applications Ideas

In the Home



BLUETOOTH LE

Tracking
Theft Prevention
Access Control
Home Automation

Beyond the Front Door



SUB-GHZ FSK

Outdoor Lighting
Water Mitigation and Control
Energy Conservation
Appliance Predictive Maintenance

Beyond the Fence



SUB-GHZ FSK AND CSS

Park Management
Environmental Management
Building and Campus Management
Airports

Silicon Labs' Amazon Sidewalk Portfolio



EFR32BG21

2.4GHz Bluetooth LE Radio +
MCU
Secure Vault-High
Line Powered Devices

EFR32BG24

2.4GHz Radio + MCU
Secure Vault-High
AI/ML Capability
Low Power

EFR32XG2X

Support for FSK and
FSK + Bluetooth LE

QUECTEL KG100S

Bluetooth LE/FSK/CSS PCB
Module
Fastest Integration Path
Includes BG21 + SX126x

High-Level Hardware Options for Amazon Sidewalk

	BG21	BG24	xG23	xG28	BG21 + SX126x KG100S Module
RAM (up to)	96kB	256kB	64kB	256kB	96kB
Flash	512kB-1MB	1.5MB	512kB	1MB	1MB
Max Tx (dBm)	+20dBm	+20dBm	+20dBm	BLE: +10dBm Sub-GHz: +20dBm	+20dBm
BLE	Yes	Yes	No	Yes	Yes
FSK – Sub GHz	No	No	Yes	Yes	Yes
CSS	No	No	No	No	Yes
Secure Vault	Yes	Yes	Yes	Yes	Yes
AI/ML H/W Accelerator	No	Yes	No	Yes	No
For Battery Power	Yes (External DC/DC)	Yes	Yes	Yes	Yes (External DC/DC)
Amazon Sidewalk Timing	Now	Now	Now	Now	Now



Introducing SG23 and SG28

New Family for Amazon Sidewalk

Supports Amazon Sidewalk only

SG28: Single Chip for Bluetooth LE & FSK

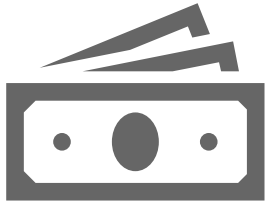
SG23: Lower price point for FSK

Pin compatible between SG23 and SG28

Part of the Most Complete Wireless Solution for Amazon Sidewalk

- End-to-End [Sidewalk Developer Journey](#)
- Full SDK on Simplicity Studio and GitHub
- Secure Wireless Hardware Portfolio
- Development Kits

SG28 Benefits



TIME & MONEY

- **A Dual-Band SoC for all wireless on Amazon Sidewalk**
- **Simplified BoM, Design, and Development**
- **Sidewalk Developer Journey for Fast Learning Curve**
- **Accelerate Time-to-Revenue & Reduce Costs**



USER EXPERIENCE

- **Long reach & reliable connectivity – A 1-mile range and the best link budget**
- **Ultra-low-power – Extensive battery life and recharging interval**
- **Easy Bluetooth Device Commissioning**



SECURITY

- **Amazon Sidewalk-compliant security**
- **Secure Vault High, TrustZone**
- **PSA Level 3**
- **Protect Devices, Users, and Your Brand Reputation from Cyber-Threats**



MOST COMPLETE

- **All wireless development from a single partner**
- **Simplify sourcing & Get better support**
 - Online Developer Journey
 - SDK and Tools
 - AWS pre-registered kits
 - Broadest HW portfolio

Amazon Sidewalk Developer Journey

- Silicon Labs provides device makers with end-to-end Developer Journey for the Amazon Sidewalk
- Your team can *learn* the process quickly, avoids common mistakes, and can plan time and resources wisely
- Available for *all* on the silabs.com website

Get Started

Develop

Deploy Product

1. Buy Pro Kit for Amazon Sidewalk 2. Check Amazon Sidewalk Coverage 3. Unbox Pro Kit 4. Choose Your Hardware Platform 5. Create User Accounts 6. Set Up Dev Environment 7. Configure Kit with Environment



1. Develop Your Product

2. Test & Iterate

3. Qualify Product



1. Manufacture Product

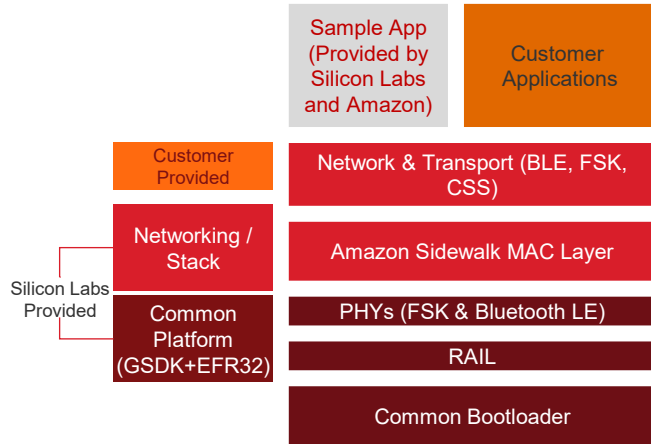
2. Operate Product



[Go to Silabs.com and Learn More!](https://silabs.com)

The Silicon Labs Amazon Sidewalk IoT Solution

Amazon Sidewalk SDK



Partner Module
BG21+SX1262



STACK

- Full Amazon Sidewalk SDK integrated into SiSDK
- Low Power Multi-Protocol radio stack
- Out-of-the-box connectivity to AWS IoT Core via Sidewalk APIs

HARDWARE

- SoCs, Modules and Dev Kits
- Secure Vault- key storage and crypto acceleration
- Pre-certified Pro Kits

DEVELOPMENT TOOLS

- Simplicity Studio IDE with Sidewalk SDK integration
- Energy Profiler
- Pro kit reference designs pre-flashed and AWS ready
- End-to-end developer journey

CERTIFICATION

- On-device key generation and secure provisioning
- On-device Certificate Generation - Production Device Provisioner (PDP)
- Reference "SoC Qualification" apps to accelerate approval

Development Kits



KG100S-PK6130A

- 1x WSTK Main Board
- 1x KG100S Radio Board (BLE, FSK, CSS)
- 1x BG24 Radio Board (BLE Only)
- 1x SX1262 Adapter Board
- 915 MHz Antenna
- Pre-flashed with OOB Demo and pre-registered with AWS



KG100S-RB4332A

- 1x KG100S Radio Board (BLE, FSK, CSS)
- 1x 915 MHz Antenna



Unlock True Flexibility with the EFR32ZG28 Multiprotocol Capabilities

amazon sidewalk





Amazon Sidewalk: A Neighborhood Network

Amazon Sidewalk:

- Is a new way to enable IoT
- Compliments existing IoT protocols
- Allows device makers to connect securely without the need for dedicated gateways
- Enables new types of applications
- Data is accessed through AWS
- Network coverage across most of the US and will continue to grow worldwide

Silicon Labs is an Amazon Key Scaling Partner

- Silicon Labs offers simple security compliance with additional security options using Secure Vault™
- Engaging with select device partners today
- HW and SW support through current SoCs/reference designs and tools
- Will continue to innovate through HW and SW
- Full GSDK launch with Amazon coming soon



Thank you

